

Mars Anomalies: Exploring Literacy and STEM Collaborations



Health and Medical Connections in Space

Astronaut Scenario: Mars Anomaly. Communications have been lost! It is night time on Mars. Are the astronauts awake and aware or sleeping? Mission Control assembles their medical team. Your role is to study the sleep patterns of the astronauts to determine if they are awake.

Example classroom lesson adapted from the National Institute of Health's sleep lesson: Sleep, Sleep Disorders, and Biological Rhythms. Lesson #2: Houston We Have a Problem.

Health Information Resources from the National Library of Medicine

Connections in space and health. Astronaut health topics can include: anatomy, DNA, genetics, sleep deprivation, eye health, bone and muscle strength, fitness, health, etc.

- NNLM K-12 resources (LibGuide)
- *MedlinePlus* – 1,000+ health topics in English and Spanish
 - Teen Health and Children's Health pages
- *Genetics Home Reference* – guide to understanding genetics
- *Harry Potter's World: Renaissance Science, Magic, and Medicine*, grades 6-12+

STEM Careers

- MedlinePlus Health Occupations page, grades 6-12+
- *Changing the Face of Medicine: Celebrating America's Women Physicians*, 6-12+
- *Physician Assistants, Collaboration and Care*, grades 6-12+

National Institutes of Health – Kids Pages

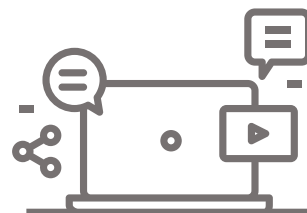
- National Eye Institute - *NEI for Kids*
- National Institute of Arthritis and Musculoskeletal and Skin Diseases - *Kids Pages*

National Network of Libraries of Medicine

The National Network of Libraries of Medicine provides free health information resources for librarians, educators, and consumers across the nation.

- Professional development awards and institutional grants
- Free in-person and webinar training opportunities

*Full list of URLs on back of page



Webliography – A complete List of URLs

- NIH Curriculum Supplements: <https://science.education.nih.gov>
 - Sleep, Sleep Disorders, and Biological Rhythms. Lesson #2: Houston We Have a Problem, Astronaut Scenario:
<https://science.education.nih.gov/supplements/webversions/SleepDisorders/activities/houston.html>
- NNLM K-12 resources: nmlm.gov/mar/guides/k12-resources
- MedlinePlus – 1,000 health topics in English and Spanish: www.medlineplus.gov
 - Teen Health: <https://medlineplus.gov/teenhealth.html>
 - Children's Health: <https://medlineplus.gov/childrenshealth.html>
- Genetics Home Reference – guide to understanding genetics: ghr.nlm.nih.gov
- Harry Potter's World: Renaissance Science, Magic, and Medicine, grades 6-12+:
www.nlm.nih.gov/exhibition/harrypottersworld/index.html
- MedlinePlus - Health Occupations, 6-12+:
www.nlm.nih.gov/medlineplus/healthoccupations.html
- Changing the Face of Medicine: Celebrating America's Women Physicians, 6-12+:
www.nlm.nih.gov/changingthefaceofmedicine/index.html
- Physician Assistants, Collaboration and Care, 6-12+:
<https://www.nlm.nih.gov/exhibition/pa-collaborationandcare/index.html>
- NEI for Kids - National Eye Institute: <https://nei.nih.gov/kids>
- NIAMS Kids Pages - National Institute of Arthritis and Musculoskeletal and Skin Diseases: <https://www.niams.nih.gov/health-topics/kids>
- National Network of Libraries of Medicine (NNLM): www.nnlm.gov
 - Find your region: <https://nnlm.gov/regions>

